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(72) Inventor(s)

W.N. RUSSELL

(57) Claim

This invention relates to the ease of carrying, the safety and stability of a Scuba Air Cylinder whist carrying by hand or transporting by vehicle. For many people carrying a scuba air cylinder is an awkward two handed function, also transporting by vehicle is hazardous. Cylinders tends to roll and could dislodge or render the high pressure valve unsafe. These problems are overcome by the present invention, because the devise locks around the centre of the cylinder. The cylinder can be lifted and carried by one hand when placed in the boot of a vehicle or placed on sloping ground the device will stop the cylinder from rolling. In the invention, two tubes are set apart from each other and running parallel to each other. They are secured in this configuration by rope which passes through holes drilled in to the tubes, the rope is tied inside each hole maintaining a fixed and set distance apart. The rope is then passed through a handle and back into one of the tubes and secured, thus forming a sling. The cylinder is placed on top of the tubes and the loop end of the rope is brought over the cylinder and locked over the handle. One tube is filled with light gauge rope and can be pulled out and used in emergency situations. The other tube is sealed off to form an air lock allowing the device to float. A small section of rops is housed inside the handle by feeding this into the main rope, the sling will become smaller allowing it to fit most size cylinder.

Claim: Indefinite

- I-AUSTRALIA P/00/011 aries Regulation 3.2

Patents Act 1990

ORIGINAL COMPLETE SPECIFICATION STANDARD PATENT

The following statement is a full description of this invention, including the best method of performing it known to me:-

this invention relates to the ease of carrying, the safety and stability of a Scuba Air Cylinder whilst carrying by hand or transporting by vehicle. For many people carrying a scuba air cylinder is an awkward two handed function, also transporting by vehicle is hazardous. Cylinders tend to roll and could dislodge or render the high pressure valve unsafe. These problems are overcome by the present invention, because the device locks around the centre of the cylinder. The cylinder can be lifted and carried by one hand when placed in the boot of a vehicle or placed on sloping ground the device will stop the cylinder from rolling. In the invention, two tubes are set apart from each other and running parallel to each other. They are secured in this configuration by rope which passes through holes drilled into the tubes, the rope is tied inside each hole maintaining a fixed and set distance apart. The rope is then passed through a handle and back into one of the tubes and secured, thus forming a sling. The cylinder is placed on top of the tubes and the loop end of the rope is brought over the cylinder and locked over the handle. One tube is filled with light gauge rope and can be pulled out and used in emergency situations. The other tube is sealed off to form an airlock allowing the device to float. A small section of rope is housed inside the handle by feeding this into the main rope, the sling will become smaller allowing it to fit most size cylinders.

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These problems are overcome by the present invention because the device locks around the centre of the cylinder. The cylinder can be lifted and darried by one hand, when placed in the boot of a vehicle or placed on slouppe ground the device will stop the cylinder from rolling.

in the invention two tupes are set abort from each other and running parallel to eachother. They are secured in this configuration by rope which passes through holes drilled into the tubes, the rope is tied inside learn hole maintaining a fixed and set distance apart, the rope is then in passed through a handle and back into one of the tubes and secured, thus into one of the tubes and the loop intended of the rope is brought over the cylinder and locked over the handle.

On tube is filled with light gauge rope and can be pulled out and used in emergency situations. The other tube is sealed off to form a airlock allowing the device to float. A small section of rope is housed inside the handle by feeding this into the main rope, the sling will become smaller allowing it to fit most size cylinders.

the device can be made from available materials.

25 Tube can be plastic or fibreglass.

Rope can be plastic or tipreglass.

<u>mandle</u> can be plastic or fibreglass.

To assist with understanding the invention, reference to:

- $\frac{716}{3}$. Shows one example of a scuba sling device according to this invention.
- CIG 2. Shows the application of such a scuba sling device to a cylinder.

<u>rig. 3.</u> It can be seen that the scuba sling device according to this invention comprises of 1 two plastic tubes having holes 2 drilled into them by feeding Rope 3 through the holes 2 back up and passing through handle 4 down to Tube 1 and secured inside Tube 1.

FIG 4. Can be seen that the Handle 4 is made adjustable by housing a short section of rope 5 housed in the handle.

*The claims defining the invention are as follows:-

The device can be made from available materials.

Tube can be plastic or fibreglass.

Rope can be plastic or fibreglass.

5 Handle can be plastic or tipreglass.

To assist with understanding the invention, reference to:

- FIG.1. Shows one example of a scuba sling device according to this invention.
- Fig. 2. Shows the application of such a scuba sling device to a cylinder.
- 10 518, 3. It can be seen that the scuba sling device according to this invention comprises of 1 two plastic tubes having holes 2 drilled into them by feeding Rope 1 through the noies 2 back up and passing through handle 4 down to Tube I and secured inside Tube 1.
- FIG 4. Can be seen that the Handle 4 is made adjustable by housing a 15 short section of rope 5 housed in the handle.
 - $\underline{\mathsf{FIG}}$ 5. Can be seen to make the scuba sling smaller by feeding the short section 5 into the main rope I.
 - $\frac{6.6}{6.0}$ Can be seen that one tube 1 is filled with light gauge rope 6 and can be pulled out and used in emergency situations.
- 20 $\frac{F16}{7}$. Can be seen that the other and opposite tube 1 is plugged to form an air-lock 7, making the scuba sling buoyant.
 - $\frac{\text{F1G}}{\text{B}}$ 8. Another form of the invention when the scuba sling is hung by the loop end it forms a hanger for drying and or storing a wet suit.
- FIG 9 Another form of the invention by hitching two or more of the 25 scuba slings together by the rope work1the device can be transformed into a rope ladder.

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29 7/91 (Date)

ABSTRACT

A MULTI FUNCTION DEVICE AIMED MAINLY AT THE SAFETY AND STABILITY OF A SCUBA AIR CYLINDER. DURING CARRYING BY HAND OR TRANSPORTING BY VEHICLE THE DEVICE IS 2 TUBES HELD TOGETHER BY ROPE AND SO ARRANGED TO HOLD A SCUBA AIR CYLINDER FIRMLY. HAVING THE VERSATILITY TO BE UTILISED FOR HANGING A WET SUIT - FORMING INTO A ROPE LADDER AND BE USED AS A LIFELINE.

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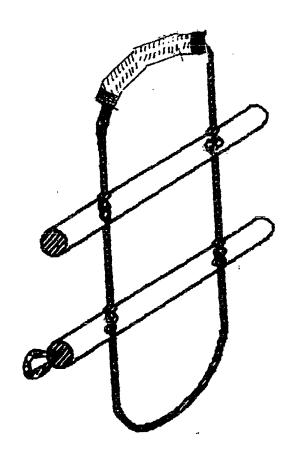
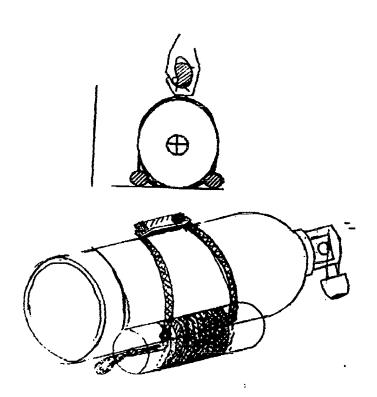


FIGURE I

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Pigure

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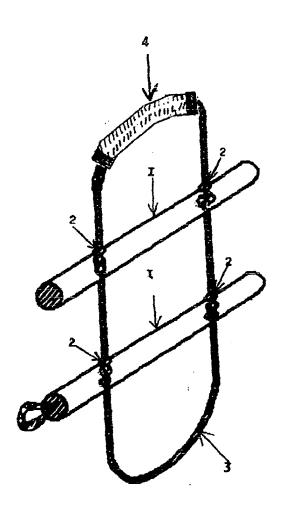
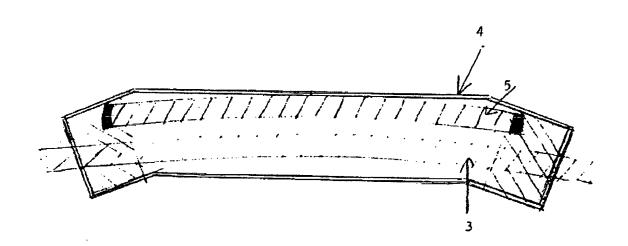
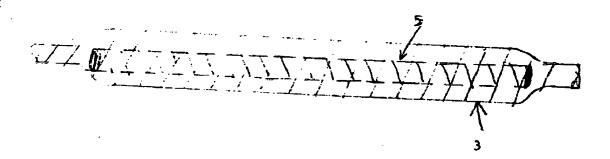


Figure / 3



PIGUAE 4



PIGURE /5

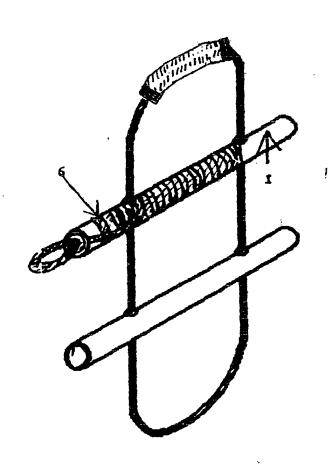


FIGURE _6

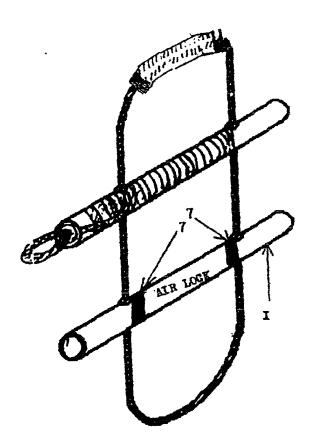


FIGURE 7

